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United States Department of Agriculture

Natural Resources Conservation Service

Washington Basin Outlook Report April 1, 1997



Basin Outlook Reports

and Federal - State - Private Cooperative Snow Surveys

For more water supply and resource management information, contact:

Local Natural Resources Conservation Service Field Office

Of

Larry Johnson

Climate Data Liaison

Natural Resources Conservation

Service

W. 316 Boone Ave., Suite 450

Spokane, WA 99201-2348

(509) 353-2341

or

Scott Pattee

Acting Water Supply Specialist

Natural Resources Conservation

Service

2021 E. College Way, Suite 214

Mt. Vernon, WA 98273-2873

(360) 428-7684

How forecasts are made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Natural Resources Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated SNOTEL measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via meteor burst telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

Forecast uncertainty originates from two sources: (1) uncertainty of future hydrologic and climatic conditions, and (2) error in the forecasting procedure. To express the uncertainty in the most probable forecast, four additional forecasts are provided. The actual streamflow can be expected to exceed the most probable forecast 50% of the time. Similarly, the actual streamflow volume can be expected to exceed the 90% forecast volume 90% of the time. The same is true for the 70%, 30%, and 10% forecasts. Generally, the 90% and 70% forecasts reflect drier than normal hydrologic and climatic conditions; the 30% and 10% forecasts reflect wetter than normal conditions. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty will become known and the additional forecasts will move closer to the most probable forecast.

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Washington Water Supply Outlook

April 1997

General Outlook

The March snowpack and precipitation accumulated at near twice the normal rate in Washington. April 1 basin averages remain much above average. Streamflow levels also remain higher than average. Spring and summer streamflows are forecast to be above normal. The National Weather Service is predicting a high probability of spring flooding for most of the state. New snowpack and precipitation records continue to be set at SNOTEL sites in Washington. Reservoir managers continue to work feverishly in anticipation of a heavy spring runoff.

Snowpack

The April 1 statewide SNOTEL readings remain well above average at 159%. Snowpack varied from near to much above average throughout the state, with the Olympic Peninsula River Basin SNOTEL reporting the lowest with 104% of average, and the Walla Walla River Basin the highest at 174% of average. Westside averages from SNOTEL and April 1 snow surveys included the North Puget Sound river basins with 133% of average, the Olympic Peninsula basins with 106%, and the Lewis-Cowlitz basins with 159% of average. Snowpack along the east slopes of the Cascade Mountains included the Yakima area with 163%, and the Wenatchee area with 154%. Snowpack in the Spokane River Basin was at 160%, and the Pend Oreille River Basin, including Canadian data, had 148% of average. Maximum snow cover in Washington was at Paradise Park SNOTEL on Mt. Rainier, with a water content of 108 inches. This site would normally have 62.1 inches of water content on April 1. The highest average in the state was Tinkham Creek SNOTEL near the Cedar River with 271% of average. The lowest snowpack in the state was at the Spirit Lake SNOTEL near Mt. St. Helens with 0.8 inches of snow-water-equivalent. Spirit Lake would normally have 3.6 inches on April 1.

BASIN	PERCENT	OF LA	AST YE.	AR	PERCENT	OF	AVERAGE
Spokane		267 . 147 .				168 148	
Conconully Lake							
Methow							
Similkameen							
Chelan							
Stemilt Creek							
Yakima							
Ahtanum Creek							
Walla Walla		216 .				174	
Cowlitz							
Lewis							
White						142	
Green						160	
Cedar						202	
Skykomish							
Skagit							
Baker							
Olympic Peninsula							

Precipitation

The National Weather Service and Natural Resources Conservation Service climate stations during the month of March showed much above average precipitation for all basins in Washington. The highest percent of average in the state was at Pigtail Peak SNOTEL site near White Pass, Washington. Pigtail Peak reported 403% of average for a total of 28.9 inches. Average for this site is 7.17 inches for March. Averages for the water year varied from 122% of average in the Okanogan - Methow to 162% of average in the Walla Walla River basins. The highest average for the water year is 193% of average at Mill Creek Dam near Walla Walla.

	MARCH		WATER YEAR
BASIN	PERCENT OF	AVERAGE	PERCENT OF AVERAGE
Spokane			
Colville-Pend Oreille	189		139
Okanogan-Methow	158		122
Wenatchee-Chelan	252		137
Yakima	253		161
Walla Walla	163		162
Cowlitz-Lewis	191		143
White-Green	199		149
Central Puget Sound	240		151
North Puget Sound	225		141
Olympic Peninsula	176		124

Reservoir

Reservoir storage in Washington varied greatly due to fluctuating runoff and flood control management. Reservoir storage in the Yakima Basin was 727,900 acre feet or 98% of average. Storage at other reservoirs included Roosevelt at 92% of average, and the Okanogan reservoirs with 123% of average for April 1. The power generation reservoirs included the following: Coeur d'Alene Lake, 307,300 acre feet, or 181% of average; Chelan Lake, 189,800 acre feet, 89% of average and 28% of capacity; and Ross Lake at 247% of average and 52% of capacity. Greater than average releases continued from most reservoirs across the state. These numbers may change dramatically over the next few months in preparation for spring runoff and flood control.

BASIN	PERCENT OF	CAPACITY	PERCENT OF AVERAGE
Spokane	129		181
Colville-Pend Oreille			
Okanogan-Methow	78		123
Wenatchee-Chelan	28		89
Yakima	68		98
North Puget Sound	52		247

Streamflow

Forecasts for summer streamflow are mostly for well above average. They vary from 114% of average for the Cowlitz at Castle Rock to 180% of average for the Spokane near Post Falls. April forecasts for some Western Washington streams include: Cedar River near Cedar Falls, 137%; Green River, 132%; and the Dungeness River, 124%. Some Eastern Washington streams include the Yakima River near Parker, 153%; the Wenatchee River at Peshastin, 148%; and the Colville River at Kettle Falls, 156%. Volumetric forecasts increased for most all streams in Washington over last month. Increases are associated with greater than average March snowpack and precipitation accumulation.

March streamflows varied from well above to near average. The South Fork of the Walla Walla River near Milton Freewater was the highest at 362% of average; and the Methow River at Pateros, with 102% of average, was the lowest in the state. Other streamflows were the following percentage of average: the Cowlitz River, 183%; the Skagit River, 180%; the Okanogan River, 206%; the Spokane River, 178%; the Columbia at the Canadian border, 161%, and the Yakima River at Cle Elum, 206%.

BASIN	PERCENT OF AVERAGE
	MOST PROBABLE FORECAST
	(50 PERCENT CHANCE OF EXCEDENCE)
Spokane	172-180
Colville-Pend Oreille	
Okanogan-Methow	
Wenatchee-Chelan	
Yakima	
Walla Walla	118-155
Cowlitz-Lewis	114-168
White-Green	
Central Puget Sound	129-147
North Puget Sound	130-133
Olympic Peninsula	
STREAM	PERCENT OF AVERAGE
	MARCH STREAMFLOWS
Pend Oreille Bl. Box Canyon	
Kettle at Laurier	
Columbia at Birchbank	
Spokane at Long Lake	
Similkameen at Nighthawk	
Okanogan at Tonasket	
Methow at Pateros	
Chelan at Chelan	
Wenatchee at Pashastin	
Yakima at Cle Elum	
Yakima at Parker	
Naches at Naches	
Yakima at Kiona	
Grande Ronde at Troy	
Snake bl. Lower Granite	
SF Walla Walla nr. Milton Freewater	
Columbia at The Dalles	
Lewis at Ariel	
Cowlitz bl. Mayfield Dam	

For more information contact your local Natural Resources Conservation Service office.

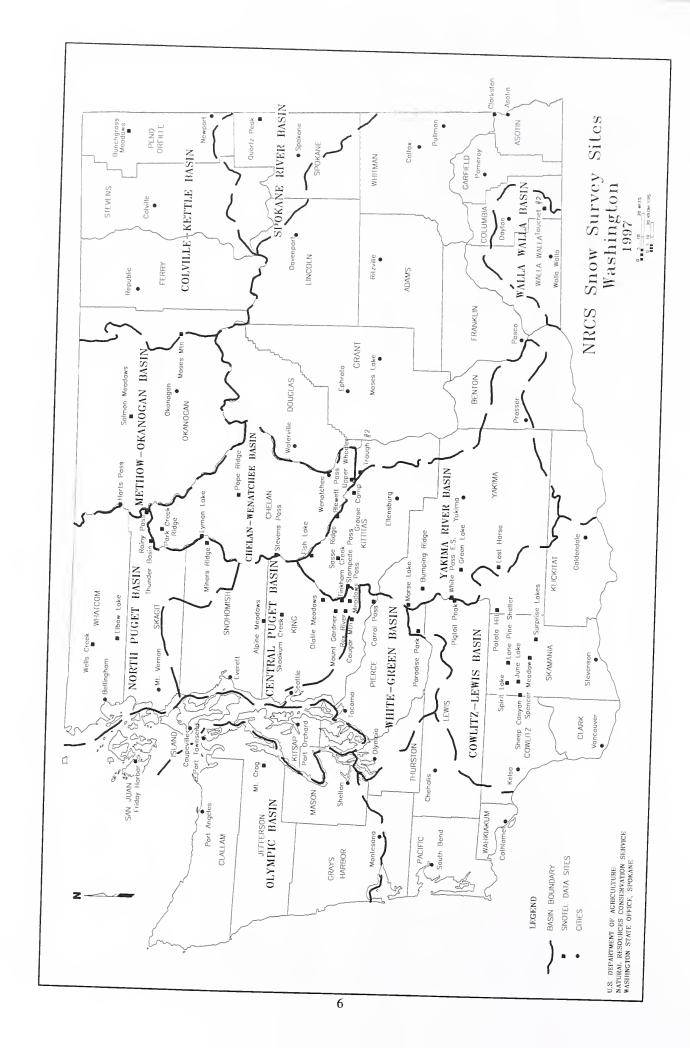
Skagit at Concrete.....

B A S I N S U M M A R Y O F S N O W C O U R S E D A T A

APRIL 1997

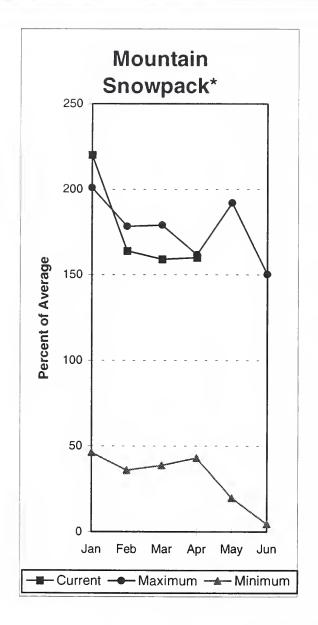
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DAMES TRAIS 1809 1/25/79 47 17.5 6.1 5.4									PILLOW						24.4
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CORPER MOUNTAIN 7700 3/28/97 49 17.1 13.2 11.4 MISSEZULA MTN CAN. 4700 4/01/97 37 11.0 9.9 1 CORNER CREEK 3150 3/27/97 45 16.8 2.1 6.1 MISSION GROSS CAN. 4200 3/28/97 71 225.8 21.4 2 CORAL PASS FILLOW 6000 4/01/97 55.38 21.1 32.6 MISSION RIDGE 5000 3/28/97 64 22.3 15.6 1 CORVALLEY 4500 3/28/97 124 49.3 15.9 39.5 MOORES REEK FILLOW 6000 4/01/97 61.7 32.6 MISSION RIDGE 6000 4/01/97 31.1 24.0 11.0 CORVALLEY 4500 3/28/97 124 49.3 15.9 39.5 MOORES REEK FILLOW 6000 4/01/97 41.7 32.0 1 MISSION RIDGE CAN. 6100 4/01/97 41.7 32.0 1 MISSION RI															17.5
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EAST FORK R.S. \$400 3/28/97 29 10.4 4.4 5.6 MT. GARDNER PILLOW 2860 4/01/97 29.28 4.7 LAST RAGGED SADDLE 3740 3/29/97 78 34.4 8.5 20.4 MUTTON CREEK #1 5700 3/31/97 48 17.5 12.3 11 EL DORADO MINE 7800 4/01/97 59.4S 7.2 44.0 NEVADA CREEK PILLOW 6800 4/01/97 17.8 14.0 LEMBER FILLOW 3200 4/01/97 59.4S 7.2 44.0 NEVADA CREEK PILLOW 6800 4/01/97 21.2 16.8 12 EMERY CREEK 4550 3/30/97 67 28.4 15.1 15.7 NEW BOZOMERILANCE 2800 4/02/97 54 20.2 4.3 11 EMERY CREEK 1LOW 4550 4/01/97 24.7 10.5 16.3 NEZ PERCE CRE PILLOW 5550 4/01/97 23.7 17.1 12 EMERY CREEK PILLOW 3500 3/31/97 53 18.1 14.5 14.3 NOISY BASIN PILLOW 6400 4/01/97 68.8E 41.1 4.5 ESPERON CK. UP CAN. 5500 3/29/97 59 21.1 15.4 17.0 NORTH FORK JOCKO 6330 4/02/97 152 64.1 48.0 4.5 FARRON CN. UP CAN. 5500 3/29/97 114 44.5 22.1 24.3 OLALLIE MEMBORS 3630 4/01/97 93.3S 33.5 FARRON CN. UP CAN. 5500 3/26/97 48 17.6 13.5 13.3 OLALLIE MEMBORS 3630 4/01/97 93.3S 33.5 FISB CREEK S500 3/02/97 114 44.5 22.1 24.3 OLALLIE MEMBORS 3630 4/01/97 93.3S 33.5 FISB LAKE 3370 3/27/97 120 49.5 26.9 31.4 OPEN FARK 7150 3/29/97 58 21.4 17.8 11.5 FISB CREEK PILLOW 3370 4/01/97 54.6S 34.5 31.9 OYANA LAKE CAN. 4100 3/30/97 30 10.0 8.6 40.2 FIRSB LAKE PILLOW 3370 4/01/97 54.6S 34.5 31.9 OYANA LAKE CAN. 4100 3/30/97 30 10.0 8.6 FIRSB LAKE PILLOW 3370 4/01/97 54.6S 34.5 31.9 OYANA LAKE CAN. 4100 3/30/97 30 10.0 8.6 FIRSB LAKE PILLOW 3300 3/24/97 46 16.2 2.2 6.8 PARK CK RIDGE PILLOW 600 3/24/97 55 21.4 17.8 11 9 FIRSB LAKE PILLOW 3000 3/24/97 85 32.2 32.2 22.5 4 PERESON KIND PILLOW 5500 4/01/97 108.0S 56.4 FIRSB F									CAN.						12.7
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FLEECER RIDGE 7500 3/26/97 47 17.5 15.0 11.3 PARADISE PARK PILLOW 5500 4/01/97 108.0S 56.4 66 FOURTB OF JULY SUM 3200 3/24/97 46 16.2 2.2 6.8 PARK CK RIDGE PILLOW 4600 4/01/97 72.8S 50.6 42 FRED BURR PASS 8000 3/26/97 85 32.2 32.2 25.4 PETERSON MDW PILLOW 7200 3/27/97 14.4 9.8 11.5 FREDZEOUT CK. TRAIL 3500 4/02/97 51 20.0 4.8 11.5 PIGTAIL PEAR PILLOW 5900 4/01/97 97.6S 52.9 45 FROENER MDWS PILLOW 6480 4/01/97 9.6 8.8 8.7 PIKE CREEK 5930 3/25/97 97 38.2 25.0 26 GIBBONS PASS 7100 3/28/97 91 32.0 30.2 23.2 PIKE CREEK FILLOW 5930 4/01/97 42.2 30.7 27 GOAT CREEK 3600 3/28/97 18 5.9 2.1 4.3 PIPESTONE PASS 7200 3/26/97 24 8.0 5.4 GOAL CREEK 14KE 7200 4/01/97 63 20.1 16.0 15.9 POPE RIDGE PILLOW 3540 4/01/97 31.0S 23.9 II GRANITE PEAK 6000 4/02/97 159 64.7 38.6 43.5 POSTILL LAKE CAN. 4200 3/27/97 35 11.3 10.3 6 GRASS MOUNTAIN #2 2900 4/01/97 24.9 15.4 16.7 QUARTZ PEAK PILLOW 4500 4/01/97 39.1S 18.1 25 GRAYS CKR FILLOW 4300 4/01/97 24.9 15.4 16.7 QUARTZ PEAK PILLOW 4500 4/01/97 39.1S 18.1 25 GRAYSTOKE LAKE CAN. 5500 3/26/97 51 18.0 13.0 16.2 ROUND TOP MTN 4020 3/26/97 38 14.9 .0 GREEN LAKE FILLOW 6000 4/01/97 61.9E 35.4 33.9 RAGGED RIDGE 3330 3/26/97 38 14.9 .0 GREEN LAKE FILLOW 6000 4/01/97 61.9E 35.4 33.9 RAGGED RIDGE 3330 3/26/97 38 14.9 .0 GREEN LAKE FILLOW 6000 4/01/97 61.9E 35.4 33.9 RAGGED RIDGE 3330 3/26/97 38 14.9 .0 GREEN LAKE FILLOW 6000 4/01/97 61.9E 35.4 33.9 RAGGED RIDGE 3330 3/26/97 38 14.9 .0 GREEN LAKE FILLOW 6000 4/01/97 56.4S 51.4 GREYBACK RES CAN. 4700 3/26/97 39 12.8 10.6 9.0 REX RIVER FILLOW 8000 4/01/97 66.7S 1.3 GREYBACK RES CAN. 4700 3/26/97 39 12.8 10.6 9.0 REX RIVER FILLOW 8000 4/01/97 46.7S 1.3 GRIFFIN CR DIVIDE 5150 3/27/97 48 17.2 8.5 11.2 ROCKER PEAK FILLOW 8000 4/01/97 46.7S 1.3 GRIFFIN CR DIVIDE 5150 3/27/97 48 17.2 8.5 11.2 ROCKER PEAK FILLOW 8000 4/01/97 46.7S 1.3 GRIFFIN CR DIVIDE 5150 3/27/97 48 17.2 8.5 11.2 ROCKER PEAK FILLOW 8000 4/01/97 46.7S 1.3 GRIFFIN CR DIVIDE 5150 3/27/97 48 17.2 8.5 11.2 ROCK															6.4 29.9
FOURTB OF JULY SUM 3200 3/24/97 46 16.2 2.2 6.8 PARK CK RIDGE PILLOW 4600 4/01/97 72.8S 50.6 4: FRED BURR PASS 8000 3/26/97 85 32.2 32.2 25.4 PETERSON MDW PILLOW 7200 3/27/97 14.4 9.8 FREDEZEOUT CK. TRAIL 3500 4/02/97 51 20.0 4.8 11.5 PIGTAIL PEAK PILLOW 5900 4/01/97 97.6S 52.9 44 FROENER MDWS PILLOW 6480 4/01/97 9.6 8.8 8.7 PIKE CREEK 5930 3/25/97 97 38.2 25.0 26 GIBBONS PASS 7100 3/28/97 91 32.0 30.2 23.2 PIKE CREEK FILLOW 5930 4/01/97 42.2 30.7 27 GOAT CREEK 3600 3/28/97 18 5.9 2.1 4.3 PIPESTONE PASS 7200 3/26/97 24 8.0 5.4 5.4 GOLD CREEK LAKE 7200 4/01/97 63 20.1 16.0 15.9 POPE RIDGE PILLOW 3540 4/01/97 31.0S 23.9 15 GRANITE PEAK 6000 4/02/97 159 64.7 38.6 43.5 POSTILL LAKE CAN. 4200 3/27/97 35 11.3 10.3 GRASS MOUNTAIN #2 2900 4/01/97 41 17.4 .0 15.9 POTATO BILL PILLOW 4500 4/01/97 39.1S 11.3 10.3 GRASS MOUNTAIN #2 2900 4/01/97 24.9 15.4 16.7 QUARTZ PEAK PILLOW 4500 4/01/97 36.1 12.0 GRAYSTOKE LAKE CAN. 5500 3/26/97 51 18.0 13.0 16.2 ROUND TOP MTN 4020 3/26/97 49 20.5 GREEN LAKE PILLOW 6000 4/01/97 61.9E 35.4 33.9 RAGGED RIDGE 3330 3/26/97 49 20.5 GREEN LAKE PILLOW 6000 4/01/97 37.8S 21.6 20.7 RAINY PASS PILLOW 4780 4/01/97 56.4S 51.4 GREYBACK RES CAN. 4700 3/26/97 39 12.8 10.6 9.0 REX RIVER PILLOW 8000 4/01/97 46.7S 1.3 GRIFFIN CR DIVIDE 5150 3/27/97 48 17.2 8.5 11.2 ROCKER PEAK PILLOW 8000 4/01/97 46.7S 1.3 GRIFFIN CR DIVIDE 5150 3/27/97 48 17.2 8.5 11.2 ROCKER PEAK PILLOW 8000 4/01/97 46.7S 1.3 GROUSE CAMP PILLOW 5380 4/01/97 27.8S 18.0 19.8 ROCKER PEAK PILLOW 8000 4/01/97 18.0 16.2 GROUSE CAMP PILLOW 5380 4/01/97 27.8S 18.0 19.8 ROCKER PEAK PILLOW 8000 4/01/97 18.0 16.2 GROUSE CAMP PILLOW 5380 4/01/97 27.8S 18.0 19.8 ROCKER PEAK PILLOW 8000 4/01/97 18.0 16.2 GROUSE CAMP PILLOW 5380 4/01/97 27.8S 18.0 19.8 ROCKER PEAK PILLOW 8000 4/01/97 18.0 16.2 GROUSE CAMP PILLOW 5380 4/01/97 27.8S 18.0 19.8 ROCKER PEAK PILLOW 8000 4/01/97 18.0 16.2 GROUSE CAMP PILLOW 5380 4/01/97 27.8S 18.0 19.8 ROCKER PEAK PILLOW															62.1
FREEZEOUT CK. TRAIL 3500 4/02/97 51 20.0 4.8 11.5 PIGTAIL PEAK PILLOW 5900 4/01/97 97.6S 52.9 45 FROENER HDWS PILLOW 6480 4/01/97 9.6 8.8 8.7 PIKE CREEK 5930 3/25/97 97 38.2 25.0 26 GIBBONS PASS 7100 3/28/97 91 32.0 30.2 23.2 PIKE CREEK PILLOW 5930 4/01/97 42.2 30.7 27 GOAT CREEK 3600 3/28/97 18 5.9 2.1 4.3 PIPESTONE PASS 7200 3/26/97 24 8.0 5.4 GOAT CREEK 14KE 7200 4/01/97 63 20.1 16.0 15.9 POPE RIDGE PILLOW 3540 4/01/97 31.0S 23.9 15 GRANITE PEAK 6000 4/02/97 159 64.7 38.6 43.5 POSTILL LAKE CAN. 4200 3/27/97 35 11.3 10.3 58 GRASS MOUNTAIN #2 2900 4/01/97 41 17.4 .0 15.9 POTATO BILL PILLOW 4500 4/01/97 39.1S 18.1 25 GRAYE CRE PILLOW 4300 4/01/97 24.9 15.4 16.7 QUARTZ PEAK PILLOW 4500 4/01/97 36.1 12.0 GRAYSTOKE LAKE CAN. 5500 3/26/97 51 18.0 13.0 16.2 ROUND TOP MIN 4020 3/26/97 38 14.9 .0 GREEN LAKE 6000 4/01/97 61.9E 35.4 33.9 RAGGED RIDGE 3330 3/26/97 38 14.9 .0 GREEN LAKE PILLOW 6000 4/01/97 37.8S 21.6 20.7 RAINY PASS PILLOW 4780 4/01/97 56.4S 51.4 GREYBACK RES CAN. 4700 3/26/97 39 12.8 10.6 9.0 REX RIVER PILLOW 8000 4/01/97 66.7S 1.3 GRIFFIN CR DIVIDE 5150 3/27/97 48 17.2 8.5 11.2 ROCKER PEAK PILLOW 8000 4/01/97 18.0 16.2 GROUSE CAMP PILLOW 5380 4/01/97 27.8S 18.0 19.8 ROCKER PEAK PILLOW 8000 4/01/97 18.0 16.2 15.0 GROUSE CAMP PILLOW 5380 4/01/97 27.8S 18.0 19.8 ROCKER PEAK PILLOW 8000 4/01/97 18.0 16.2 15.0 3/311/97 132 54.7 22.3 37.5 15.0 3/311/97 132 54.7 22.3 37.5 15.0 3/31/97 132 54.7 22.3 37.5 15.0 3/31/97 132 54.7 22.3 37.5 15.0 3/31/97 132 54.7 22.3 37.5 15.0 3/31/97 132 54.7 22.3 37.5 15.0 3/31/97 132 54.7 22.3 37.5 15.0 3/31/97 132 54.7 22.3 37.5 15.0 3/31/97 132 54.7 22.3 37.5 15.0 3/31/97 132 54.7 22.3 37.5 15.0 3/31/97 132 54.7 22.3 37.5 15.0 3/31/97 132 54.7 22.3 37.5 15.0 3/31/97 132 54.7 22.3 37.5 15.0 3/31/97 132 54.7 22.3 37.5 15.0 3/31/97 132 54.7 22.3 37.5 15.0 3/31/97 132 54.7 22.3 37.5 15.0 3/31/97 132 54.7 22.3 37.5 15.0 3/31/97 132 54.7 22.3 37.5 15.0 3/31/97 132 54.7 22.3 37.5 15.0 3/31/97 132 54.7 22.3 37.5 15.0 3/31/															41.6
FROENER MDWS PILLOW 6480 4/01/97 9.6 8.8 8.7 PIKE CREEK 5930 3/25/97 97 38.2 25.0 26 GIBBONS PASS 7100 3/28/97 91 32.0 30.2 23.2 PIKE CREEK PILLOW 5930 4/01/97 42.2 30.7 27 GOAT CREEK 3600 3/28/97 18 5.9 2.1 4.3 PIFESTONE PASS 7200 3/26/97 24 8.0 5.4 5 GOLD CREEK LAKE 7200 4/01/97 63 20.1 16.0 15.9 POPE RIDGE PILLOW 3540 4/01/97 31.0S 23.9 15 GRANITE PEAK 6000 4/02/97 159 64.7 38.6 43.5 POSTILL LAKE CAN. 4200 3/27/97 35 11.3 10.3 GRASS MOUNTAIN #2 2900 4/01/97 41 17.4 .0 15.9 POPATO BILL PILLOW 4500 4/01/97 39.1S 18.1 12.0 GRAYE CRK FILLOW 4300 4/01/97 24.9 15.4 16.7 QUARTZ PEAK PILLOW 4700 4/01/97 36.1 12.0 GRAYSTOKE LAKE CAN. 5500 3/26/97 51 18.0 13.0 16.2 ROUND TOP MTN 4020 3/26/97 49 20.5 GREEN LAKE CAN. 6000 4/01/97 61.9E 35.4 33.9 RAGGED RIDGE 3330 3/26/97 38 14.9 .0 3 GREEN LAKE PILLOW 6000 4/01/97 37.8S 21.6 20.7 RAINY PASS PILLOW 4780 4/01/97 46.7S 1.3 GRIFFIN CR DIVIDE 5150 3/27/97 48 17.2 8.5 11.2 ROCKER PEAK PILLOW 8000 4/01/97 46.7S 1.3 GRIFFIN CR DIVIDE 5150 3/27/97 48 17.2 8.5 11.2 ROCKER PEAK PILLOW 8000 4/01/97 18.0 16.2 GROUSE CAMP PILLOW 5380 4/01/97 27.8S 18.0 19.8 ROCKER PEAK PILLOW 8000 4/01/97 18.0 16.2 13.3 37.3 37.3 37.3 37.3 37.3 37.3 37.3			3/26/97	85			25.4								11.0
GIBEONS PASS 7100 3/28/97 91 32.0 30.2 23.2 PIKE CREEK PILLOW 5930 4/01/97 42.2 30.7 27.0 CAT CREEK 3600 3/28/97 18 5.9 2.1 4.3 PIPESTONE PASS 7200 3/26/97 24 8.0 5.4 5.0 CAT CREEK LAKE 7200 4/01/97 63 20.1 16.0 15.9 POPE RIDGE PILLOW 3540 4/01/97 31.0S 23.9 15 CRANITE PEAK 6000 4/02/97 159 64.7 38.6 43.5 POSTILL LAKE CAN. 4200 3/27/97 35 11.3 10.3 6.0 CRASS MOUNTAIN #2 2900 4/01/97 41 17.4 .0 15.9 POTATO BILL PILLOW 4500 4/01/97 39.1S 18.1 25 CRAYE CRE PILLOW 4300 4/01/97 24.9 15.4 16.7 COUART PEAK PILLOW 4700 4/01/97 36.1 12.0 27 CRAYSTORE LAKE CAN. 5500 3/26/97 51 18.0 13.0 16.2 ROUND TOP MTN 4020 3/26/97 49 20.5 GREEN LAKE 6000 4/01/97 61.9E 35.4 33.9 RAGGED RIDGE 3330 3/26/97 49 20.5 CREEN LAKE PILLOW 6000 4/01/97 37.8S 21.6 20.7 RAINY PASS PILLOW 4780 4/01/97 56.4S 51.4 36 GREYBACK RES CAN. 4700 3/26/97 39 12.8 10.6 9.0 REX RIVER PILLOW 1900 4/01/97 46.7S 1.3 27 GRIFFIN CR DIVIDE 5150 3/27/97 48 17.2 8.5 11.2 ROCKER PEAK PILLOW 8000 4/01/97 18.0 16.2 15.0 ROCKER									PILLOW						49.3 26.7
GOAT CREEK 3600 3/28/97 18 5.9 2.1 4.3 PIPESTONE PASS 7200 3/26/97 24 8.0 5.4 5.4 GOLD CREEK LAKE 7200 4/01/97 63 20.1 16.0 15.9 POPE RIDGE PILLOW 3540 4/01/97 31.08 23.9 15.4 GRAYS MOUNTAIN #2 2900 4/01/97 41 17.4 .0 15.9 POTATO BILL PILLOW 4500 4/01/97 39.18 18.1 25.4 GRAYS CAR PILLOW 4300 4/01/97 24.9 15.4 16.7 QUARTZ PEAK PILLOW 4700 4/01/97 36.1 12.0 GRAYSTOKE LAKE CAN. 5500 3/26/97 51 18.0 13.0 16.2 ROUND TOP MIN 4020 3/26/97 49 20.5 GREEN LAKE 6000 4/01/97 61.9E 35.4 33.9 RAGGED RIDGE 3330 3/26/97 38 14.9 .0 GREEN LAKE PILLOW 6000 4/01/97 61.9E 35.4 33.9 RAGGED RIDGE 3330 3/26/97 38 14.9 .0 GREEN LAKE PILLOW 6000 4/01/97 56.48 51.4 36 GREYBACK RES CAN. 4700 3/26/97 39 12.8 10.6 9.0 REX RIVER PILLOW 4700 4/01/97 56.48 51.4 36 GREYBACK RES CAN. 4700 3/26/97 39 12.8 10.6 9.0 REX RIVER PILLOW 8000 4/01/97 46.78 1.3 GRIFFIN CR DIVIDE 5150 3/27/97 48 17.2 8.5 11.2 ROCKER PEAK PILLOW 8000 4/01/97 46.78 1.3 GROUSE CAMP PILLOW 5360 4/01/97 27.8S 18.0 19.8 ROCKER PEAK PILLOW 8000 4/01/97 18.0 16.2 15 GROUSE CAMP PILLOW 5360 4/01/97 27.8S 18.0 19.8 ROCKER PEAK PILLOW 8000 3/31/97 132 54.7 29.3 37									ILLOW						27.9
GOLD CREEK LAKE 7200 4/01/97 63 20.1 16.0 15.9 POPE RIDGE PILLOW 3540 4/01/97 31.08 23.9 15 GRANITE PEAK 6000 4/02/97 159 64.7 38.6 43.5 POSTILL LAKE CAN. 4200 3/27/97 35 11.3 10.3 6 GRANITE PEAK 6000 4/01/97 41 17.4 .0 15.9 POTATIO BILL PILLOW 4500 4/01/97 39.18 18.1 25 GRAVE CRK PILLOW 4300 4/01/97 24.9 15.4 16.7 QUARTZ PEAK PILLOW 4700 4/01/97 36.1 12.0 23 GRAYSTOKE LAKE CAN. 5500 3/26/97 51 18.0 13.0 16.2 ROUND TOP MIN 4020 3/26/97 49 20.5 GREEN LAKE 6000 4/01/97 61.9E 35.4 33.9 RAGGED RIDGE 3330 3/26/97 38 14.9 .0 3 GREEN LAKE PILLOW 6000 4/01/97 37.8S 21.6 20.7 RAINY PASS PILLOW 4780 4/01/97 56.4S 51.4 36 GREYBACK RES CAN. 4700 3/26/97 39 12.8 10.6 9.0 REX RIVER PILLOW 1900 4/01/97 46.7S 1.3 GRIFFIN CR DIVIDE 5150 3/27/97 48 17.2 8.5 11.2 ROCKER PEAK PILLOW 8000 4/01/97 46.7S 1.3 GRIFFIN CR DIVIDE 5150 3/27/97 48 17.2 8.5 11.2 ROCKER PEAK PILLOW 8000 4/01/97 46.7S 1.3 GRIFFIN CR DIVIDE 5380 4/01/97 27.8S 18.0 19.8 ROCKER PEAK PILLOW 8000 4/01/97 18.0 16.2 15 GROUSE CAMP PILLOW 5380 4/01/97 27.8S 18.0 19.8 ROLAND SUMMIT 5120 3/31/37 132 54.7 29.3 37														5.4	5.9
GRASS MOUNTAIN #2 2900 4/01/97 41 17.4 .0 15.9 POTATO BILL PILLOW 4500 4/01/97 39.18 18.1 25 GRAYE CRK PILLOW 4300 4/01/97 24.9 15.4 16.7 QUARTZ PEAK PILLOW 4700 4/01/97 36.1 12.0 27 GRAYSTOKE LAKE CAN. 5500 3/26/97 51 18.0 13.0 16.2 ROUND TOP MTN 4020 3/26/97 49 20.5 GREEN LAKE 6000 4/01/97 61.9E 35.4 33.9 RAGGED RIDGE 3330 3/26/97 38 14.9 .0 GREEN LAKE PILLOW 6000 4/01/97 37.8S 21.6 20.7 RAINY PASS PILLOW 4780 4/01/97 56.4S 51.4 36 GREYBACK RES CAN. 4700 3/26/97 39 12.8 10.6 9.0 REX RIVER PILLOW 1900 4/01/97 46.7S 1.3 27 GRIFFIN CR DIVIDE 5150 3/27/97 48 17.2 8.5 11.2 ROCKER PEAK PILLOW 8000 4/01/97 18.0 16.2 15 GROUSE CAMP PILLOW 5380 4/01/97 27.8S 18.0 19.8 ROLAND SUMMIT 5120 3/31/97 132 54.7 29.3 37	GOLD CREEK LAKE	7200	4/01/97	63	20.1	16.0	15.9	POPE RIDGE	PILLOW	3540	4/01/97				15.7
GRAVE CRK FILLOW 4300 4/01/97 24.9 15.4 16.7 QUARTZ PEAK FILLOW 4700 4/01/97 36.1 12.0 21 GRAYSTOKE LAKE CAN. 5500 3/26/97 51 18.0 13.0 16.2 ROUND TOP MTN 4020 3/26/97 49 20.5 GREEN LAKE PILLOW 6000 4/01/97 61.9E 35.4 33.9 RAGGED RIDGE 3330 3/26/97 38 14.9 .0 3 GREEN LAKE PILLOW 6000 4/01/97 37.8S 21.6 20.7 RAINY PASS PILLOW 4780 4/01/97 56.4S 51.4 38 GREYBACK RES CAN. 4700 3/26/97 39 12.8 10.6 9.0 REX RIVER PILLOW 1900 4/01/97 46.7S 1.3 GRIFFIN CR DIVIDE 5150 3/27/97 48 17.2 8.5 11.2 ROCKER PEAK PILLOW 8000 4/01/97 18.0 16.2 15 GROUSE CAMP PILLOW 5380 4/01/97 27.8S 18.0 19.8 ROLAND SUMMIT 5120 3/31/97 132 54.7 29.3 37															8.7 25.3
GRAYSTOKE LAKE CAN. 5500 3/26/97 51 18.0 13.0 16.2 ROUND TOP MYN 4020 3/26/97 49 20.5 GREEN LAKE 6000 4/01/97 61.9E 35.4 33.9 RAGGED RIDGE 3330 3/26/97 38 14.9 .0 GREEN LAKE PILLOW 6000 4/01/97 37.8S 21.6 20.7 RAINY PASS PILLOW 4780 4/01/97 56.4S 51.4 GREYBACK RES CAN. 4700 3/26/97 39 12.8 10.6 9.0 REX RIVER PILLOW 1900 4/01/97 46.7S 1.3 GRIFFIN CR DIVIDE 5150 3/27/97 48 17.2 8.5 11.2 ROCKER PEAR PILLOW 8000 4/01/97 18.0 16.2 15 GROUSE CAMP PILLOW 5380 4/01/97 27.8S 18.0 19.8 ROLAND SUMMIT 5120 3/31/97 132 54.7 29.3 37															21.9
GREEN LAKE 6000 4/01/97 61.9E 35.4 33.9 RAGGED RIDGE 3330 3/26/97 38 14.9 .0 3 GREEN LAKE PILLOW 6000 4/01/97 37.8S 21.6 20.7 RAINY PASS PILLOW 4780 4/01/97 56.4S 51.4 38 GREYBACK RES CAN. 4700 3/26/97 39 12.8 10.6 9.0 REX RIVER PILLOW 1900 4/01/97 46.7S 1.3 27 GRIFFIN CR DIVIDE 5150 3/27/97 48 17.2 8.5 11.2 ROCKER PEAR PILLOW 8000 4/01/97 18.0 16.2 15 GROUSE CAMP PILLOW 5380 4/01/97 27.8S 18.0 19.8 ROLAND SUMMIT 5120 3/31/97 132 54.7 29.3 37															
GREYBACK RES CAN. 4700 3/26/97 39 12.8 10.6 9.0 REX RIVER PILLOW 1900 4/01/97 46.7S 1.3 27 GRIFFIN CR DIVIDE 5150 3/27/97 48 17.2 8.5 11.2 ROCKER PEAK PILLOW 8000 4/01/97 18.0 16.2 15 GROUSE CAMP FILLOW 5380 4/01/97 27.8S 18.0 19.8 ROLAND SUMMIT 5120 3/31/97 132 54.7 29.3 37	GREEN LAKE	6000	4/01/97		61.9E	35.4	33.9	RAGGED RIDGE		3330	3/26/97	38			3.5
GRIFFIN CR DIVIDE 5150 3/27/97 48 17.2 8.5 11.2 ROCKER PEAR PILLOW 8000 4/01/97 18.0 16.2 15 GROUSE CAMP FILLOW 5380 4/01/97 27.8S 18.0 19.8 ROLAND SUMMIT 5120 3/31/97 132 54.7 29.3 37															38.0 27.6
GROUSE CAMP FILLOW 5380 4/01/97 27.88 18.0 19.8 ROLAND SUMMIT 5120 3/31/97 132 54.7 29.3 37															15.3
													54.7	29.3	37.3
	GUNSIGHT LAKE	6300	3/30/97	127	52.4	47.8	40.0	RUSTY CREEK		4000	3/31/97	25	8.8	5.3	5.9

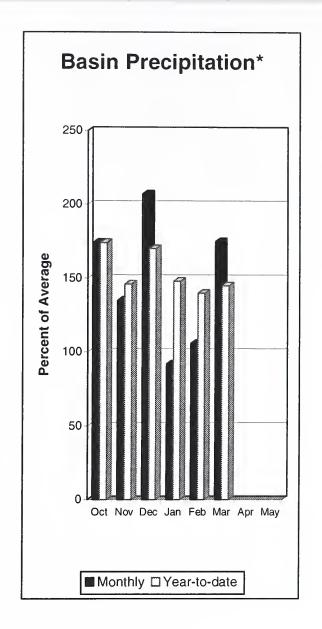
SNOW COURSE	ELEVATIO	ON DATE	SNOW	WATE	ER LA	ST AV	ÆRAGE	SNOW COURSE ELEVA	TION	DATE	SNOW W	ATER I	AST AV	ERAGE
				PTH CC			1961-90					CONTENT	YEAR	1961-90
SADDLE MTN PI			01/97		39.2	35.5	26.1	TEN MILE LOWER	6600	3/24/9		8.7	5.7	7.8
SAGE CREEK SA	DDLE	1080 3/	27/97	86	34.9	9.4	17.8	TEN MILE MIDDLE	6800	3/24/9	7 46	13.8	11.5	12.2
SALMON MDWS	PILLOW 4	1500 4/	01/97		17.9S	9.9	9.4	THUNDER BASIN	4200	4/02/9	7 95	36.8	13.6	21.7
SASSE RIDGE	PILLOW 4	200 4/	01/97		61.4S	30.6	32.1	TINKHAM CREEK PILLOW	3000	4/01/9	7	54.08	19.1	19.9
SAVAGE PASS	PILLOW (5170 4/	01/97		38.0	28.7	27.2	TOGO	3370	4/01/9	7	18.3E	6.8	10.8
SAWMILL RIDGE	. 4	1700 4/	01/97	153	64.8	19.7	36.3	TOUCHET #2 PILLOW	5530	4/01/9	7	61.3	27.6	31.9
SCHREIBERS MD	W AM	3400 4/	01/97		88.2E	15.0	58.8	TRAPPING CK LOW CAN.	2850	3/30/9	7 17	4.9	4.5	3.1
SHEEP CANYON	PILLOW 4	1050 4/	01/97		41.0S	8.4	39.8	TRAPPING CK UP CAN.	4100	3/29/9	7 35	11.3	5.9	8.3
SILVER STAR M			28/97	93	35.7	30.4	28.6	TRINKUS LAKE	6100	3/30/9	7 164	67.5	40.8	43.4
SKALKAHO PILL					39.5	32.1	24.9	TROUGH #2 PILLOW	5310	4/01/9	7	12.05	13.0	9.7
SKITWISH RIDG	E 5			126	54.1	18.2	31.3	TROUT CREEK CAN.	5650	3/29/9	7 33	10.2	9.1	6.9
SKOOKUM CREEK					44.35	1.7	46.4	TRUMAN CREEK	4060	3/30/9	7 27	9.0	4.8	3.5
SLIDE ROCK MO			30/97	59	19.9	15.0	16.7	TUNNEL AVENUE	2450	3/26/9		31.6	13.5	20.8
SPENCER MDW	PILLOW 3				51.7S	18.3	29.6	TV MOUNTAIN	6800	4/02/9	7 82	29.6	20.4	19.2
SPIRIT LAKE					.85	.0	3.6	TWELVEMILE PILLOW	5600	4/01/9	7	31.9	14.3	18.6
SPOTTED BEAR			30/97	59	22.4	15.7	14.9	TWIN CAMP	4100	4/01/9	7 104	40.4	17.3	25.1
STAHL PEAK PI			,		49.2	47.2	35.1	TWIN CREEKS	3580	3/30/9	7 54	21.3	9.6	10.3
STAMPEDE PASS					62.18	34.8	44.4	TWIN LAKES PILLOW	6400	4/01/9		65.9	43.0	40.4
STEMILT SLIDE	_		27/97	44	15.0	10.7	12.8	TWIN SPIRIT DIVIDE	3480	3/29/9		24.7	7.3	13.9
STEMPLE PASS			25/97	44	13.8	8.2	10.6	UPPER HOLLAND LAKE	6200	3/30/9		53.0	34.5	35.4
STEVENS PASS					68.6S	31.1	42.3	UPPER WHEELER PILLOW	4400	4/01/9		17.5S	12.2	13.6
STEVENS PASS				131	52.9	22.8	33.7	VASEUX CREEK CAN.	4250	3/27/9		7.3	5.8	6.3
STICKNEY RIDG				165	49.7		68.2	WARM SPRINGS PILLOW	7800	4/01/9		31.2	29.9	22.3
STORM LAKE			27/97	57	18.0	12.8	14.0	Watson Lakes am	4500	4/01/9		97.3E	25.0	64.9
STRANGER MOUN			27/97	52	20.9	7.5	12.2	WEASEL DIVIDE	5450	4/01/9		47.2E	35.9	33.8
STRYKER BASIN				113	44.5	38.1	34.6	WELLS CREEK PILLOW	4200	4/01/9		43.1S	16.0	51.0
STUART MOUNTA				125	50.9	43.1	32.9	WHITE PASS ES PILLOW	4500	4/01/9		40.3E	17.5	22.9
SUMMERLAND RE			27/97	41	13.3	10.1	9.1	WHITE ROCKS MTN CAN.	7200	4/01/9	7 70	25.1	19.7	23.0
SUMMIT G.S.			28/97	41	12.0	6.8	8.1							
SUNSET					47.9	24.5	37.6							
SURPRISE LKS	PILLOW 4	1250 4/	01/97		74.38	31.0	44.2							





Spokane River Basin





*Based on selected stations

The April 1 forecasts for summer runoff within the Spokane River Basin are 180% of average near Post Falls and 172% of average at Long Lake. The forecast is based on a basin snowpack that is 160% of average and precipitation that is 145% of average for the water year. Precipitation for March was near normal at 175% of average. Streamflow on the Spokane River at Long Lake was 178% of average for March. April 1 storage in Coeur d'Alene Lake was 307,300 acre feet, 181% of average, and 129% of capacity. Snowpack at Quartz Peak SNOTEL site contained 30.4 inches of water, compared to the average April 1 reading of 18.6 inches. Snowpack at Ragged Ridge snow course in the Newman Lake Basin was measured to have 14.9 inches of water in 38 inches of snow depth on March 26. Normal for this site is 3.5 inches of water.

Spokane River Basin

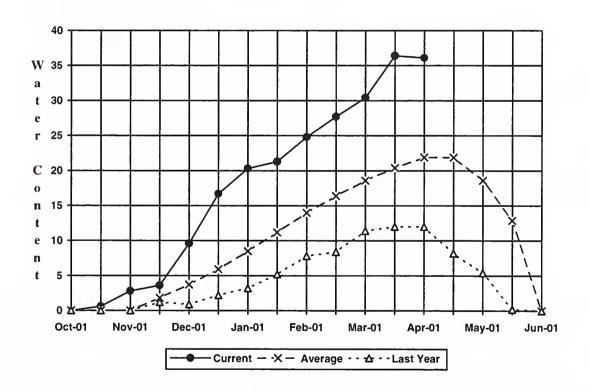
=======================================				=====		.=======	.=======:		======	=========	
Streamflow Forecasts - April 1, 1997											
=======================================				=====			========		======	========	
SPOKANE near Post Falls	(2) APR-SEP	4468	4737		4920	180	5103	53	72	2730	
	APR-JUL	4259	4522	į	4700	179	4878	51	41	2633	
SPOKANE at Long Lake	APR-JUL	4563	4853		5050	172	5247	55	37	2936	
	APR-SEP	4935	5236		5440	172	5644	59	45	3159	
=======================================	apovana prima pagri			=====	=======		:=======:	======	======		
Reservoir S	SPOKANE RIVER BASIN torage (1000 AF) - End	of March			 	atershed Sr	SPOKANE RIVI nowpack Ana:			, 1997	
				=====					======	========	
	Usab1e	*** Usab	le Storage	* * *			Nur	mber	This Y	ear as % of	
Reservoir	Capacity	This	Last		Waters	shed		of	=====	========	
		Year	Year	Avg			Data	Sites	Last Y	r Average	
				=====	=======			.======		1.60	
COEUR D'ALENE	238.5	307.3	141.7 1	70.1	SPOKAN	IE RIVER		.9	229	160	
					NEWMAN	LAKE		2	425	201	

^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

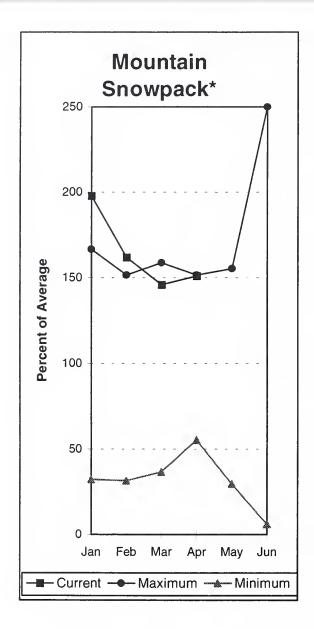
The average is computed for the 1961-1990 base period.

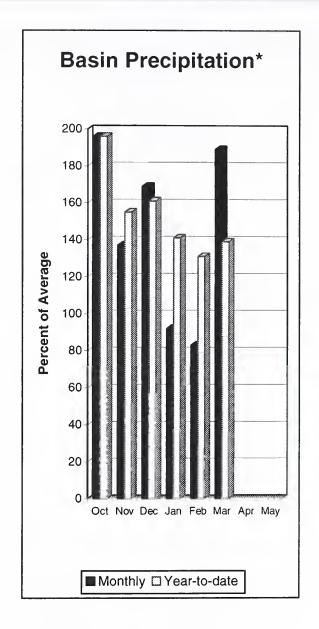
- (1) The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 (2) The value is natural flow actual flow may be affected by upstream water management.

Quartz Peak SNOTEL Elevation 4700 ft.



Colville - Pend Oreille River Basins





*Based on selected stations

The forecast for the Kettle River streamflow is for 148% of average; the Pend Oreille, below Box Canyon, 145%; and the Priest River, near the town of Priest River, 142% of average for the summer runoff period. The forecast for the Columbia River at Birchbank is for runoff to be 119% of average. March streamflow was 150% of average on the Pend Oreille River, 161% on the Columbia at the International Boundary, and 140% on the Kettle River. April 1 snow cover was 148% of average in the Pend Oreille Basin, 137% of average in the Kettle River Basin and 168% of average in the Colville River Basin. Precipitation during March was 189% of average, bringing the year-to-date precipitation to 139% of average. Reservoir storage in Roosevelt and Banks lakes was reported to be 92% of average and 33% of capacity on March 1.

Colville - Pend Oreille River Basins

Streamflow	Forecasts	- April	1.	1997

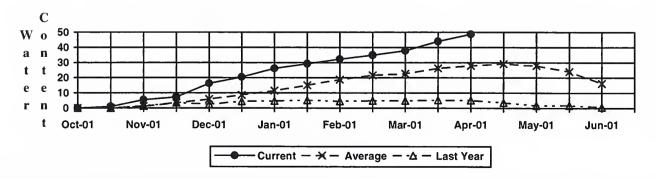
		<<======	: Drier ====	== Future Co	onditions =:	===== Wetter	====>>		
Forecast Point	Forecast	1	========						
	Period	90%	70%	50% (Most		30%	10%	30-Yr Avg.	
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)	
=======================================	========							=========	
PEND OREILLE Lake Inflow (1,2)	APR-JUL	16548	18372	19200	146	20028	21852	13150	
	APR-SEP	18098	20094	21000	146	21906	23902	14370	
	APR-JUN	14125	15848	16630	146	17412	19135	11390	
PRIEST nr Priest River (1,2)	APR-JUL	943	1085	1150	141	1215	1357	814	
	APR-SEP	1009	1161	1230	142	1299	1451	868	
		1.6070	10644	10400	1.45	00150	01030	12200	
PEND OREILLE b1 Box Canyon (1,2)	APR-JUL	16970	18641	19400	145	20159	21830	13380	
	APR-SEP	18548	20372	21200	145	22028	23852	14590	
	APR-JUN	14709	16147	16800	145	17453	18891	11570	
CHAMOKANE CREEK near Long Lake	MAY-AUG	9.41	11.59	13.06	153	14.53	16.71	8.52	
COLVILLE at Kettle Falls	APR-SEP	168	189	204	156	219	240	131	
	APR-JUL	155	175	188	157	201	221	120	
	APR-JUN	145	162	174	157	186	203	111	
KETTLE near Laurier	APR-SEP	2455	2625	2740	148	2855	3025	1854	
KEITHE Hear Daurier	APR-JUL	2349	2499	2600	148	2701	2851	1761	
	APR-JUN	2124	2255	2345	148	2435	2566	1585	
	AFR-00N	2124	2233	2343	140	2433	2500	1303	
COLUMBIA at Birchbank (1,2)	APR-JUL	37408	40291	41600	118	42909	45792	35140	
	APR-SEP	46649	50260	51900	119	53540	57151	43810	
	APR-JUN	27266	29352	30300	118	31248	33334	25670	
COLUMBIA at Grand Coulee Dm (1,2)	APR-SEP	74852	80730	83400	129	86070	91948	64850	
colonbin at Stand Course DM (1,2)	APR-JUL	62832	67761	70000	128	72239	77168	54543	
	APR-JUN	49115	52956	54700	128	56444	60285	42756	
	ALK OON	40113	32330	34700	120	50444	00203	42750	

	COLVILLE - PEND OREIL: Reservoir Storage (1000 AF	COLVILLE - PENI Watershed Snowpac			997				
Reservoir		sable S pacity S	ge *** Avg	Watershed of ===			This Year as % of		
ROOSEVELT	52	232.0 13	306.4	1971.5	1586.0	COLVILLE RIVER	3	267	168
BANKS	<i>.</i>	715.0	680.5	648.0	583.0	PEND OREILLE RIVER	107	147	148
						KETTLE RIVER	11	137	137

^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

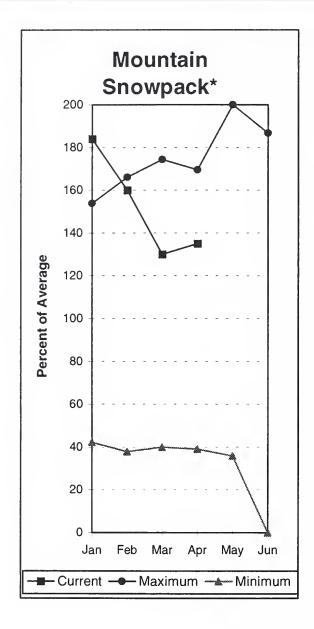
The average is computed for the 1961-1990 base period.

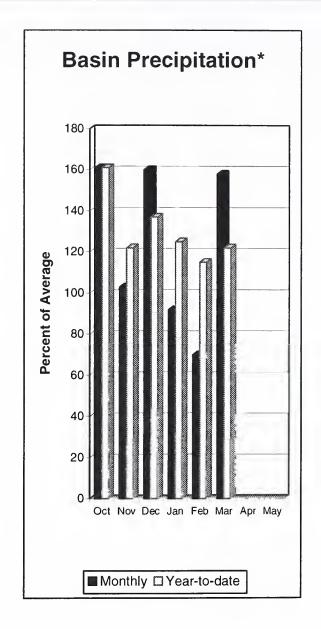
Bunchgrass Meadow SNOTEL Elevation 5000 ft.



^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

Okanogan - Methow River Basins





*Based on selected stations

Summer runoff forecast for the Okanogan River is 148% of average; the Similkameen River, 148%, the Methow River, 150%, and Salmon Creek, 135% of average. April 1 snow cover on the Okanogan was 134% of average, the Methow; 144%, the Similkameen River; 126%, and Conconully Lake; 155% of average. March precipitation in the Okanogan-Methow was 158% of average, with precipitation for the water year remaining above average at 122%. March streamflow on the Methow River was 102% of average, 206% on the Okanogan River, and 148% on the Similkameen. Snow-water-content at the Salmon Meadows SNOTEL near Conconully, was 17.9 inches. Average for this site is 9.4 inches. Storage in the Conconully Reservoirs was 18,400 acre feet, which is 78% of capacity and 123% of the April 1 average.

Okanogan - Methow River Basins

Streamflow Forecasts - April 1, 1997

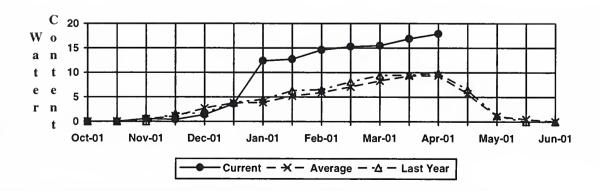
		<<=====	Drier ====	== Future C	onditions =:	===== Wetter	=====>>			
		ĺ								
Forecast Point	Forecast	=======		= Chance Of	Exceeding * :		=======			
	Period	90%	70%	50% (Most	Probable)	30%	10%	30-Yr Avg.		
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)		
SIMILKAMEEN near Nighthawk (1)	APR-SEP	======== 1733	1965	2070	148	2175	2407	1399		
211121121121111111111111111111111111111	APR-JUL	1609	1830	1930	148	2030	2251	1304		
	APR-JUN	1343	1554	1650	148	1746	1957	1113		
				İ		i				
OKANOGAN near Tonasket (1)	APR-SEP	1781	2207	2400	148	2593	3019	1623		
	APR-JUL	1633	2016	2190	149	2364	2747	1466		
	APR-JUN	1368	1679	1820	148	1961	2272	1233		
SALMON CREEK near Conconully	APR-JUL	14.1	21	l 1 26	135	 31	3.8	19.1		
SADMON CREEK Hear Concondity	APR-SEP	14.7	22	27	135	32	39	20		
		14.7	22	1	133	1	3,5	20		
METHOW RIVER near Pateros	APR-SEP	1293	1362	1410	150	1458	1527	942		
	APR-JUL	1205	1268	1310	150	1352	1415	873		
	APR-JUN	1022	1080	1120	150	1160	1218	746		

	OKANOGAN - M Reservoir Storage (1	ETHOW RIVER BA	OKANOGAN - METHOW RIVER BASINS Watershed Snowpack Analysis - April 1, 1997						
Reservoir		Usable Capacity	*** Usa This Year	ble Storag Last Year	e *** Avg	Watershed	Number of Data Sites	This Yea	r as % of ======= Average
SALMON LAKE		10.5	8.4	8.3	8.0	OKANOGAN RIVER	24	126	134
CONCONULLY RE	SERVOIR	13.0	10.0	10.6	7.0	OMAK CREEK	1	119	115
						SANPOIL RIVER	0	0	0
						SIMILKAMEEN RIVER	5	116	126
						CONCONULLY LAKE	3	161	155
						METHOW RIVER	5	117	144

^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

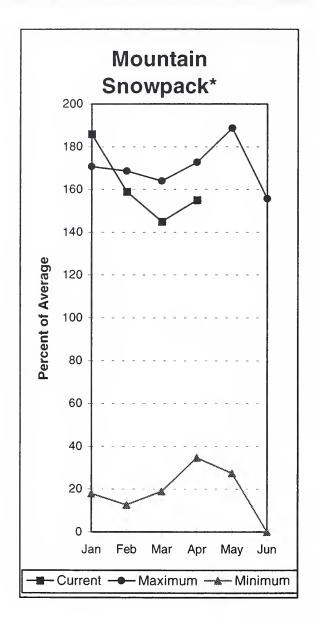
Salmon Meadows SNOTEL Elevation 4500 ft.

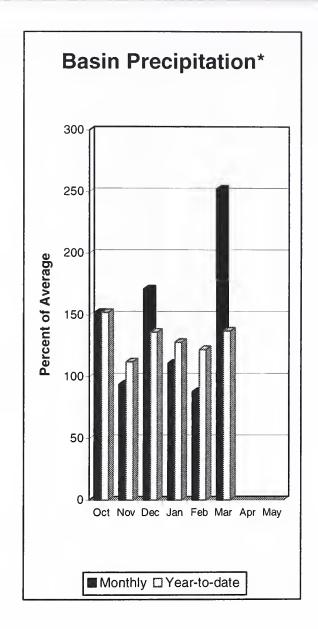


^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

^{(2) -} The value is natural flow - actual flow may be affected by upstream water management.

Wenatchee - Chelan River Basins





*Based on selected stations

Precipitation during March was 252% of average in the basin and 137% for the year to date. Runoff for the Entiat River is forecast to be 145% of average for the summer. The April-September forecast for the Chelan River is for 145%, for the Wenatchee River it is 148%, and 145% on the Stehekin. Icicle, Stemilt and Squilchuck creeks are all expected to be much above average this summer. March streamflows on the Chelan and Wenatchee rivers averaged 168% of normal. April 1 snowpack in the Wenatchee Basin was 154% of average. The Chelan Basin was 149% of average, Colockum Ridge was 124% and Stemilt Creek was 123% of average. Snowpack in the Entiat River Basin was at 223% of average. Reservoir storage in Lake Chelan was 189,800 acre feet or 89% of April 1 average and 28% of capacity. Lyman Lake SNOTEL had the most snow water with 82 inches of water. This site would normally have 56.9 inches.

Wenatchee - Chelan River Basins

Streamflow Forecasts - April 1, 1997

Streaminow Forecasts - April 1, 1997										
		<<====== 	Drier ====	== Future Co	onditions ==	===== Wetter	====>>			
Forecast Point	Forecast Period	======= 90% (1000AF)	70% (1000AF)	= Chance Of 1 50% (Most (1000AF)		30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)		
CHELAN RIVER near Chelan	APR-SEP	1544	1625	1680	145	1735	1816	1160		
	APR-JUL	1369	1438	1485	145	1532	1601	1024		
	APR-JUN	1062	1132	1180	145	1228	1298	812		
STEHEKIN near STEHEKIN	APR-SEP	1104	1161	1200	145	1239	1296	827		
	APR-JUL	939	985	1016	145	1047	1093	701		
	APR-JUN	702	749	780	145	811	858	538		
ENTIAT RIVER near Ardenvoir	APR-SEP	305	320	330	145	340	355	227		
	APR-JUL	276	290	300	146	310	324	206		
	APR-JUN	222	236	245	145	254	268	169		
WENATCHEE at Plain	APR-SEP	1582	1667	1725	145	1783	1868	1190		
	APR-JUL	1451	1519	1565	146	1611	1679	1072		
	APR-JUN	1168	1223	1260	146	1297	1352	864		
WENATCHEE R. at Peshastin	APR-SEP	1904	2211	2420	148	2629	2936	1636		
	APR-JUL	1734	2011	2200	148	2389	2666	1485		
	APR-JUN	1405	1628	1780	148	1932	2155	1204		
STEMILT nr Wenatchee (miners in)	MAY-SEP	142	168	186 186	135	204	230	138		
=======================================	========	=========					========			

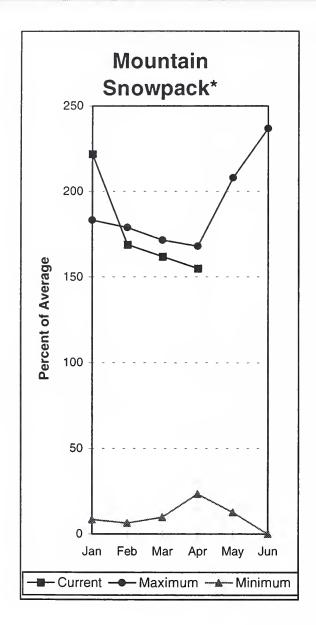
	WENATCHEE Reservoir Storage	- CHELAN RIVER (1000 AF) - End	WENATCHEE — CHELAN RIVER BASINS Watershed Snowpack Analysis — April 1, 1997						
Reservoir		Usable Capacity	*** Usable Storage *** This Last Year Year Avg		Watershed	Number of Data Sites	This Yea	r as % of ======= Average	
CHELAN LAKE		676.1	189.8	462.0	212.1	CHELAN LAKE BASIN	4	127	149
						ENTIAT RIVER	2	154	223
						WENATCHEE RIVER	13	166	154
						SQUILCHUCK CREEK	0	0	0
						STEMILT CREEK	2	142	123
						COLOCKUM CREEK	1	92	124

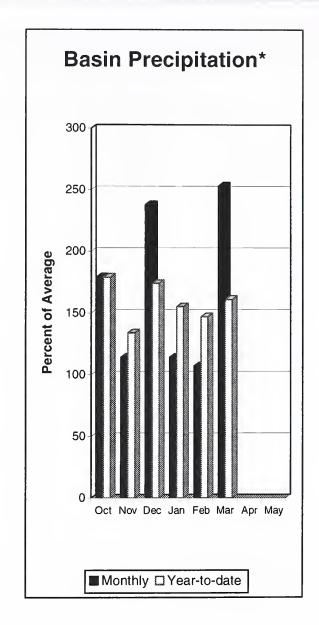
^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels. (2) - The value is natural flow - actual flow may be affected by upstream water management.

Yakima River Basin





*Based on selected stations

April 1 reservoir storage for the five major reservoirs was 727,900 acre feet, 98% of average. April 1 summer streamflow forecasts are for much above average in the Yakima Basin. Forecasts for the Yakima River at Cle Elum are for 149% of average; Naches River, 150%; the Yakima River near Parker, 153%; Ahtanum Creek, 152%; and the Tieton River, 147%. The Klickitat River near Glenwood is forecast at 168% of average flows this summer. March streamflows within the basin were; the Yakima River near Parker 192% of average; the Yakima near Cle Elum, 206%; and the Naches River at 187%. April 1 snowpack was 163% based upon 20 snow courses and SNOTEL readings within the Yakima Basin. Precipitation was 253% of average for March and 161% for the water year-to-date. Volume forecasts for the Yakima Basin are for natural flow. As such, they may differ from the U.S. Bureau of Reclamation's forecast for the total water supply available which includes irrigation return flow.

Yakima River Basin

_______ Streamflow Forecasts - April 1, 1997

					10110110		: ====>>	
Forecast Point	Forecast Period	90% (1000AF)	70% (1000AF)	(1000AF)	Probable) (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
KEECHELUS LAKE INFLOW	APR-JUL	178	188	195	157	202	212	124
	APR-SEP	192	204	212	157	220	232	135
	APR-JUN	153	164	171	157	178	189	109
KACHESS LAKE INFLOW	APR-JUL	165	173	178	160	183	191	111
	APR-SEP	173	182	188	159	194	203	118
	APR-JUN	143	152	158	160	164	173	99
CLE ELUM LAKE INFLOW	APR-JUL	593	615	630	154	645	667	409
	APR-SEP	643	668	685	153	702	727	448
	APR-JUN	491	514	530	154	546	569	345
YAKIMA at Cle Elum	APR-JUN	1002	1048	1080	150	1112	1158	721
	APR-JUL	1180	1222	1250	150	1278	1320	832
	APR-SEP	1281	1328	1360	149	1392	1439	915
BUMPING LAKE INFLOW	APR-SEP	185	193	198	146	203	211	136
	APR-JUL	169	176	181	146	186	193	124
	APR-JUN	137	146	152	146	158	167	104
AMERICAN RIVER near Nile	APR-SEP	160	167	172	146	177	184	118
	APR-JUL	149	156	161	148	166	173	109
	APR-JUN	121	129	135	147	141	150	92
RIMROCK LAKE INFLOW	APR-SEP	325	340	350	147	360	375	238
	APR-JUL	276	287	295	148	303	314	200
	APR-JUN	218	231	240	148	249	262	162
NACHES near Naches	APR-SEP	1177	1220	1250	150	1280	1323	832
	APR-JUL	1059	1101	1130	150	1159	1201	755
	APR-JUN	899	946	977	150	1008	1055	651
AHTANUM CREEK nr Tampico (2)	APR-SEP	53	63	70	152	77	87	46
	APR-JUL	49	58	64	152	70	79	42
	APR-JUN	42	50	55	153	60	68	36
YAKIMA near Parker	APR-SEP	2881	2982	3050	153	3118	3219	1994
	APR-JUL	2611	2700	2760	153	2820	2909	1805
	APR-JUN	2282	2376	2440	153	2504	2598	1597
KLICKITAT near Glenwood	APR-JUN	170 213	179 226	185 235	168 168	191 244	200 257	110 140

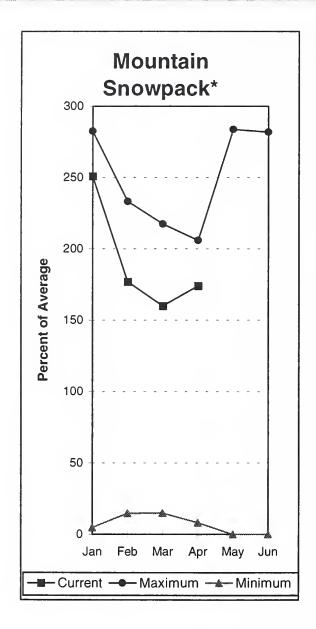
YAKIMA Reservoir Storage (10	RIVER BASIN 00 AF) - End	YAKIMA RIVER BASIN Watershed Snowpack Analysis - April 1, 1997						
Reservoir	Usable Capacity	*** Usa This Year	ble Stora Last Year	ge *** Avg	Watershed	Number of Data Sites	This Year	r as % of Average
KEECHELUS	157.8	124.2	137.9	110.0	YAKIMA RIVER	20	204	163
KACHESS	239.0	148.0	220.5	187.0	AHTANUM CREEK	2	181	146
CLE ELUM	436.9	302.7	371.0	290.0				
BUMPING LAKE	33.7	12.2	15.6	11.0				
RIMROCK	198.0	140.8	166.4	142.0				
=======================================		======	=======	=======	 -====================================			=======

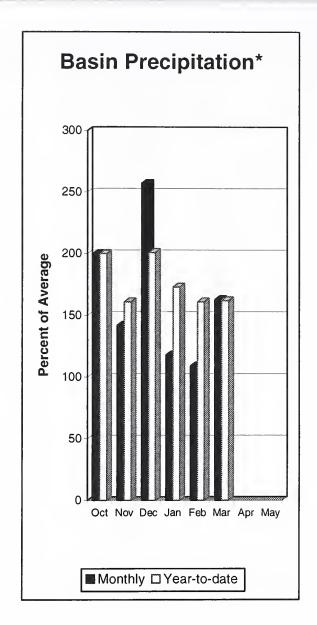
 $[\]star$ 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

Walla Walla River Basin





*Based on selected stations

March precipitation was 163% of average, bringing the year-to-date precipitation to 162% of average. April 1 snowpack was at 174% of average. The forecast is for 121% of average streamflow in the Walla Walla River for the coming summer, for the Grande Ronde at Troy, 118%, and 140% for Mill Creek. March streamflow was 362% of average for the Walla Walla River, 177% for the Snake River, and 214% for the Grande Ronde River near Troy. The Touchet SNOTEL site had 61.3 inches of snowwater-equivalent. The average April 1 reading for this site is 31.9 inches. High Ridge SNOTEL near Tollgate, Oregon contained 36.6 inches of water, compared to the April 1 normal of 24.4 inches.

Walla Walla River Basin

Streamflow Forecasts - April 1, 1997

	DULU	CILLION	TOTCCUSC	S APLI.	± ±, ±,,			
		<<=====	: Drier ====:	== Future C	onditions =	===== Wetter	====>>	
Forecast Point	Forecast	=======	========	Chance Of	Exceeding *		======	
10100000 101110	Period	90%	70%		Probable)	30%	10%	30-Yr Avg.
	reliou			!	•			
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)
GRANDE RONDE at Troy (1)	APR-JUL	1059	1293	1400	115	1507	1741	1214
	APR-SEP	1182	1435	1550	118	1665	1918	1312
SNAKE blw Lower Granite Dam (1,2)	APR-JUL	28384	31765	33300	154	34835	38216	21650
Divided David Caracter David (2) 2)	APR-SEP	32175	35974	37700	155	39426	43225	24360
	AFR-SEF	22172	33314	37700	100	33420	43223	24300
MILL CREEK at Walla Walla	APR-SEP	18.0	22	24	140	26	30	17.1
MILL CREEK at Walla Walla				_				
	APR-JUL	17.7	21	24	140	26	30	16.9
	APR-JUN	17.5	21	23	140	26	29	16.7
SF WALLA WALLA near Milton-Freewater	APR-JUL	57	62	65	123	68	73	53
	APR-SEP	71	76	80	121	84	89	66
		, _	. 0		-01		33	0.0

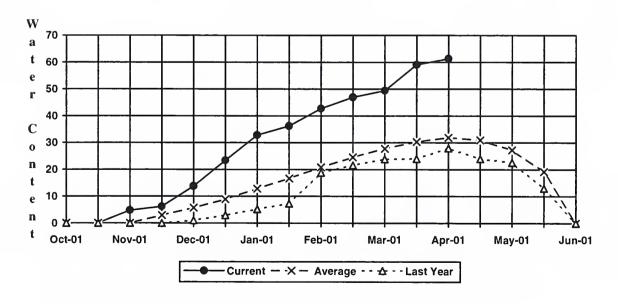
WALLA WALLA RIVER BASIN WALLA WALLA RIVER BASIN Reservoir Storage (1000 AF) - End of March Watershed Snowpack Analysis - April 1, 1997 *** Usable Storage *** Usable | Number This Year as % of This Last
Year Avg Watershed Reservoir Capacity of -----Data Sites Last Yr Average WALLA WALLA RIVER 216

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

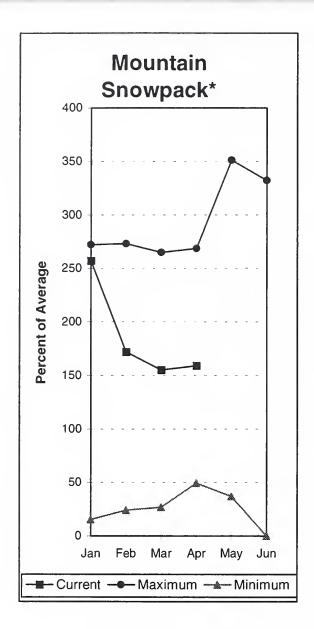
The average is computed for the 1961-1990 base period.

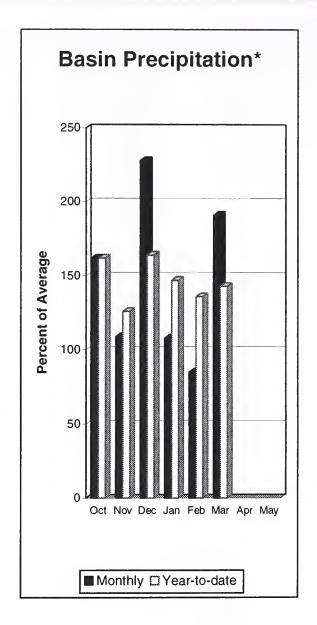
- (1) The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) The value is natural flow actual flow may be affected by upstream water management.

Touchet #2 SNOTEL Elevation 5530 ft.



Cowlitz - Lewis River Basins





*Based on selected stations

The forecast for summer runoff in the Lewis River Basin is 135% of average. The Cowlitz River at Castle Rock is forecast for 114% of average runoff. March streamflow for the Cowlitz River was 183% of average, and 168% for the Lewis River. March precipitation was 191% of average, 143% of average for the water-year. April 1 snow cover for the Cowlitz River was 146% and the Lewis River was 171% of average. The Paradise Park SNOTEL recorded the most water content for the basin and the state with 108 inches of water. Average April 1 water content is 62.1 inches.

Cowlitz - Lewis River Basins

Streamflow Forecasts - April 1, 1997

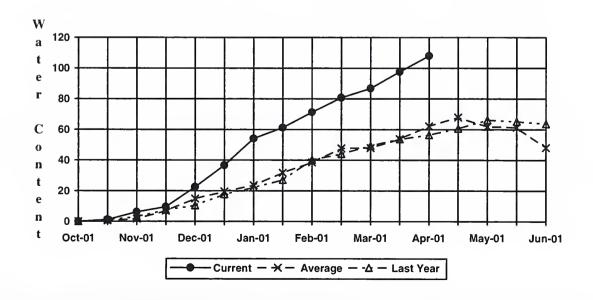
		<<======	Drier ====	== Future C	onditions =:	===== Wetter	====>>			
		ĺ								
Forecast Point	Forecast	======		= Chance Of	Exceeding * :		======			
	Period	90%	70%	50% (Most	Probable)	30%	10%	30-Yr Avg.		
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)		
		========			========	========				
LEWIS at Ariel (2)	APR-SEP	1346	1515	1630	135	1745	1914	1206		
	APR-JUL	1143	1308	1420	135	1532	1697	1053		
	APR-JUN	999	1154	1260	135	1366	1521	935		
COWLITZ R. bl Mayfield Dam (2)	APR-SEP	1731	2201	2520	128	2839	3309	1970		
	APR-JUL	1521	1931	2210	128	2489	2899	1731		
	APR-JUN	1300	1652	1890	128	2128	2480	1477		
COWLITZ R. at Castle Rock (2)	APR-SEP	2090	2662	3050	114	3438	4010	2667		
	APR-JUL	1823	2321	2660	114	2999	3497	2325		
	APR-JUN	1555	1984	2275	114	2566	2995	1995		
KLICKITAT near Glenwood	APR-JUN	170	179	185	168	191	200	110		
	APR-SEP	213	226	235	168	244	257	140		

COWLITZ - LEWIS RIVER BASINS Reservoir Storage (1000 AF) - End of March							COWLITZ - LEWIS RIVER BASINS Watershed Snowpack Analysis - April 1, 1997				
Usable *** Usable Storage *** Reservoir Capacity This Last Year Year Avg						Watershed	Number of Data Sites	This Yea	r as % of ======= Average		
							LEWIS RIVER	4	305	171	
							COWLITZ RIVER	7	203	146	

^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

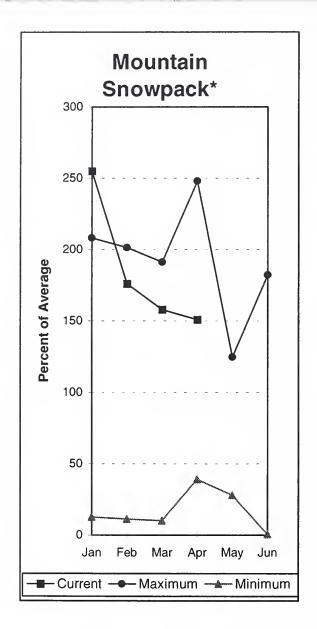
The average is computed for the 1961-1990 base period.

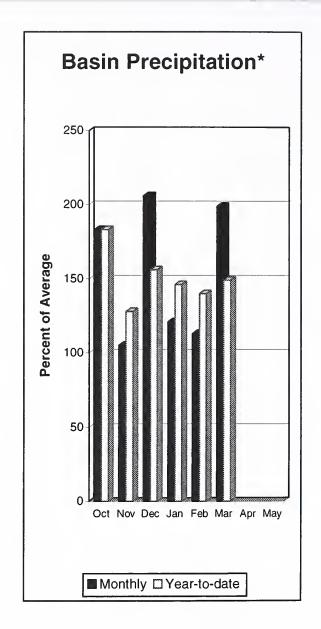
Paridise SNOTEL Elevation 5120 ft.



⁽¹⁾ - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels. (2) - The value is natural flow - actual flow may be affected by upstream water management.

White - Green River Basins





*Based on selected stations

Summer runoff is forecast to be 132% of average for the Green River. The White River should also experience above normal flows this summer. April 1 snowpack was 142% of average in the White River Basin and 160% in the Green River Basin. Water content on April 1 at the Morse Lake SNOTEL, at an elevation of 5,400 feet, was 85.5 inches. This site has a April 1 average of 47.2 inches. March precipitation was 199% of average, bringing the water year-to-date to 149% of average for the basins.

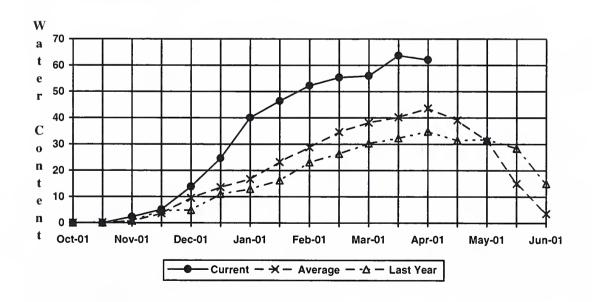
White - Green River Basins

_____ Streamflow Forecasts - April 1, 1997 _____ <====== Drier ====== Future Conditions ====== Wetter ====>> Forecast Point Forecast | 50% (Most Probable) | (1000AF) (% AVG.) Period (1000AF) (1000AF) (1000AF) (1000AF) (1000AF) 320 GREEN RIVER below Howard Hanson Dam APR-JUL 290 340 132 360 390 257 APR-SEP 325 355 376 132 397 427 285 APR-JUN 264 291 310 133 329 356 234 WHITE - GREEN RIVER BASINS WHITE - GREEN RIVER BASINS Reservoir Storage (1000 AF) - End of March Watershed Snowpack Analysis - April 1, 1997 Usable | *** Usable Storage *** Number This Year as % of Capacity This Last of ______ Year Data Sites Last Yr Average Year Avq WHITE RIVER 3 178 GREEN RIVER

The average is computed for the 1961-1990 base period.

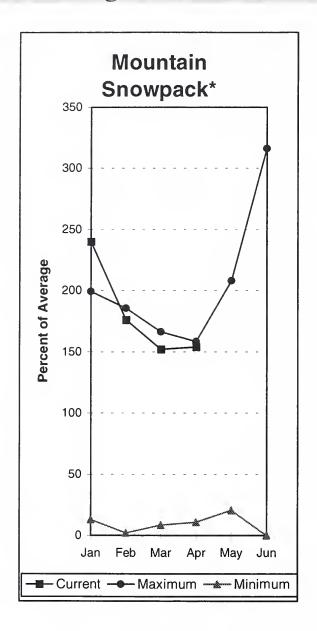
- (1) The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) The value is natural flow actual flow may be affected by upstream water management.

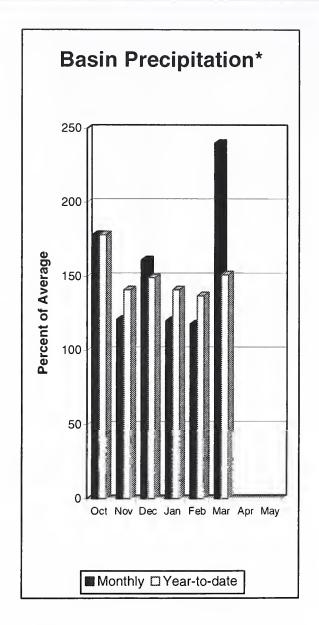
Stampede Pass SNOTEL Elevation 3860 ft.



^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

Central Puget Sound River Basins





*Based on selected stations

Forecast for spring and summer flows are: 137% for the Cedar River near Cedar Falls, 132% for the Rex River, 129% for the South Fork of the Tolt River and 147% for the Cedar River at Cedar Falls. Basin-wide precipitation for March was 240% of average, bringing water-year-to-date to 151% of average. April 1 snow cover in the Cedar River Basin was 202%, the Tolt River Basin was 116%, the Snoqualmie River Basin was 145%, and the Skykomish River Basin was 152% of average. Stevens Pass SNOTEL, at 4,070 feet, had 68.6 inches of water content. Average April 1 water content is 42.3 inches.

Central Puget Sound River Basins

Streamflow Forecasts - April 1, 1997

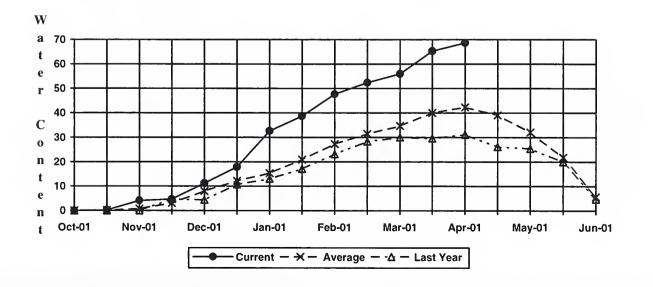
		<<=====	Drier ====	== Future C	onditions =	===== Wetter	=====>>		
Forecast Point	Forecast Period	======= 90% (1000AF)	70% (1000AF)		Exceeding * : Probable) (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)	
CEDAR RIVER near Cedar Falls	APR-JUL	92	100	106	138	112	120	77	
	APR-SEP	101	110	116	137	122	131	85	
	APR-JUN	81	89	94	138	99	107	68	
REX RIVER near Cedar Falls	APR-SEP	34	37	40	132	42	45	30	
	APR-JUN	28	31	34	134	36	39	25	
CEDAR RIVER at Cedar Falls	APR-JUL	100	112	121	148	130	142	82	
	APR-SEP	103	114	122	147	130	141	83	
	APR-JUN	97	110	118	148	127	139	80	
SOUTH FORK TOLT near Index	APR-JUL	17.4	18.8	19.8	130	21	22	15.2	
	APR-SEP	19.9	22	23	129	24	26	17.8	
	APR-JUN	14.4	16.0	17.0	130	18.0	19.6	13.1	

R	CENTRAL PUGET SOUND RIVER eservoir Storage (1000 AF) - End	CENTRAL PUGET SOUND RIVER BASINS Watershed Snowpack Analysis - April 1, 1997						
Reservoir	Usable *** Usable Storage *** ervoir Capacity This Last Year Year Avg					Number of Data Sites	This Yea	ar as % of Average
					CEDAR RIVER	6	527	202
					TOLT RIVER	2	581	116
					SNOQUALMIE RIVER	5	317	145
					SKYKOMISH RIVER	3	259	152

^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

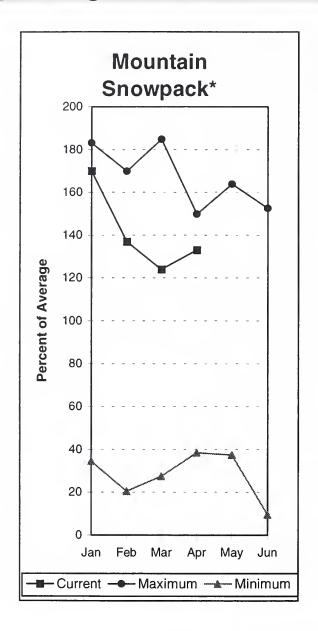
Stevens Pass SNOTEL Elevation 4070 ft.

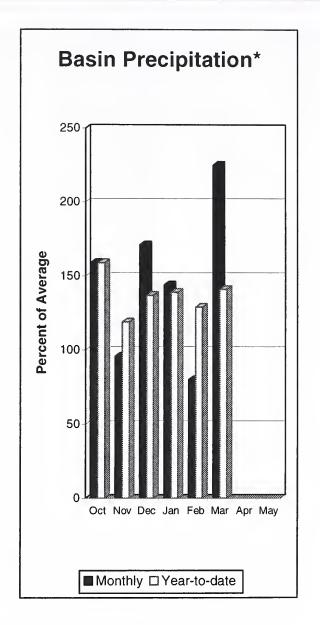


^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management. α

North Puget Sound River Basins





*Based on selected stations

Forecast for the Skagit River streamflow is for 130% of average for the spring and summer period. March streamflow in the Skagit River was 180% of average. Other forecast points included the Baker River at 133% and Thunder Creek at 130%. Basin-wide precipitation for March was 225% of average, bringing water-year-to-date to 141% of average. April 1 snow cover in the Skagit River Basin was 148%, the Baker River Basin was 140% and the Nooksack River Basin was 108% of average. Rainy Pass SNOTEL, at 4,780 feet, had 56.4 inches of water content. Average April 1 water content is 38 inches. April 1 Skagit River reservoir storage was 247% average and 52% of capacity.

North Puget Sound River Basins

Streamflow Forecasts - April 1, 1997

Forecast Point	Forecast		Drier ====	== Future C		===== Wetter	====>>	
rorecast point	Period	90% (1000AF)	70% (1000AF)		Probable)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
THUNDER CREEK near Newhalem	APR-JUL	274	289	300	130	311	326	230
	APR-SEP	399	414	425	130	436	451	328
	APR-JUN	168	183	194	130	205	220	149
SKAGIT RIVER at Newhalem (2)	APR-SEP	2481	2695	2840	130	2985	3199	2185
	APR-JUL	2080	2259	2380	130	2501	2680	1830
	APR-JUN	1606	1742	1835	130	1928	2064	1410
BAKER RIVER near Concrete	APR-JUL	1016	1075	1116	134	1157	1216	836
	APR-SEP	1292	1365	1415	133	1465	1538	1064
	APR-JUN	718	778	819	134	860	920	611

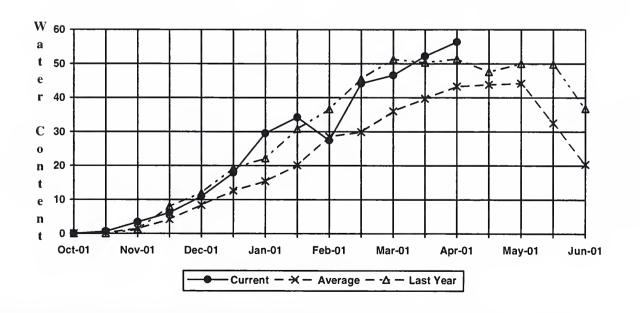
NORTH PUGET S Reservoir Storage (10			NORTH PUGET SOUND RIVER BASINS Watershed Snowpack Analysis - April 1, 1997					
Reservoir	Usable Capacity	Watershed	Number of Data Sites		r as % of ======= Average			
ROSS	1404.1	736.3	978.2	298.0	SKAGIT RIVER	12	156	148
DIABLO RESERVOIR	90.6	87.0	85.4		BAKER RIVER	3	417	140
GORGE RESERVOIR	9.8	8.1	7.9		NOOKSACK RIVER	2	442	108

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

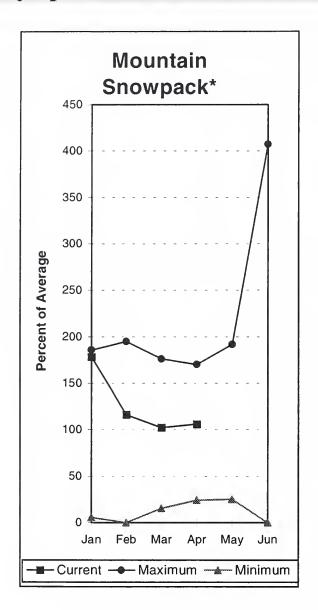
The average is computed for the 1961-1990 base period.

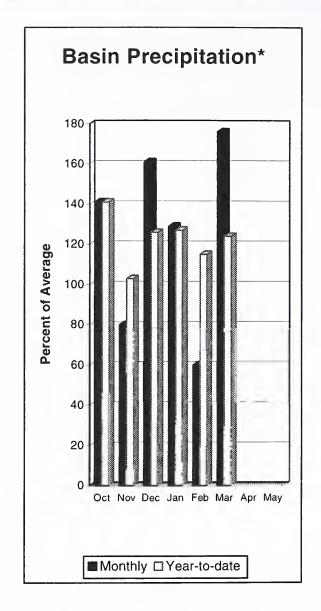
- (1) The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels. (2) The value is natural flow actual flow may be affected by upstream water management.

Rainy Pass SNOTEL Elevation 4780 ft.



Olympic Peninsula River Basins





*Based on selected stations

April forecasts of runoff for streamflow in the Dungeness River Basin are 124% of average and 124% of average for the Elwha River. The Big Quilcene and Wynoochee rivers can expect near to above average runoff this summer also. March precipitation was 176% of average. Precipitation has accumulated at 124% of average for the water year. March precipitation at Quillayute was 20.67 inches, the thirty-year average for April 1 is 11.05 inches. Average April 1 snow cover in the Olympic Basin was at 106% of average. The Mount Crag SNOTEL near Quilcene had 32.8 inches of snow-water-equivalent on April 1. Average for this site is 31.5 inches.

Olympic Peninsula River Basins

Streamflow Forecasts - April 1, 1997

		<<=====	Drier ====		onditions =:	===== Wetter	====>>	
Forecast Point	Forecast Period	90% (1000AF)	70% (1000AF)		Exceeding * = Probab1e) (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
DUNGENESS near Sequim	APR-SEP APR-JUL APR-JUN	171 140 102	182 149 111	=====================================	124 124 124 124	196 161 123	207 170 132	153 125 94
ELWHA near Port Angeles	APR-SEP APR-JUL	571 473	607 505	632 526	124 124	657 547	693 579	510 424
OLYMPIC PEN Reservoir Storage (NINSULA RIVER BA (1000 AF) - End					C PENINSULA RI nowpack Analys		1, 1997

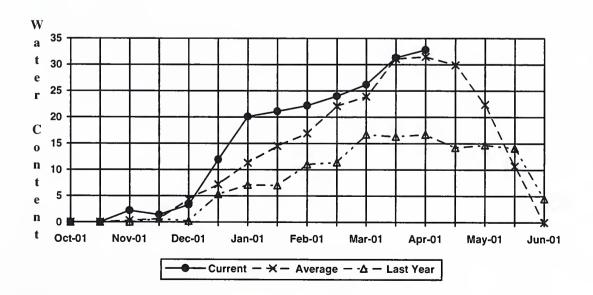
Reservoir Storage (1000 AF) - End of March					Watershed Snowpack Analysis - April 1, 1997				
Reservoir	Usable Capacity	*** Usal This Year	ole Storage Last Year	*** Avg	Watershed	Number of Data Sites	This Yea ====== Last Yr	r as % of ======= Average	
					ELWHA RIVER	1	1070	111	
					MORSE CREEK	1	310	125	
					DUNGENESS RIVER	1	254	83	
					QUILCENE RIVER	1	196	104	
					WYNOOCHEE RIVER	0	0	0	

^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

- (1) The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 (2) The value is natural flow actual flow may be affected by upstream water management.

Mount Crag SNOTEL Elevation 4050 ft.



Issued by

Released by

Paul W. Johnson

Chief

Natural Resources Conservation Service

U.S. Department of Agriculture

Lynn A. Brown

State Conservationist

Natural Resources Conservation Service

Spokane, Washington

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Ministry of the Environment

Investigations Branch, Victoria, British Columbia

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Department of Natural Resources

Federal

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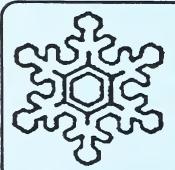
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